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PROGRESS REPORT No. 2

(Final Report)

Contract No. RD-53-SA

Task Order No. A

Prepared by:

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Approved by:

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Covering the period from May 1 to July 31, 1956

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This is the second and final progress report of Task Order No A, Contract No. RD-53-SA.

The objective of this development program was the design and construction of two microphone jamming transmitters. This program was an outgrowth of an investigation conducted under Research Order No. 14. Reference is made to the report of this investigation which describes the basic theory and background information.

The two microphone jamming transmitters are identical in design and construction. Each transmitter set consists of equipment mounted in two 26 inch suitcases. The two units form a complete self-contained radio frequency transmitter. The power output is approximately 150 watts, noise modulated, at a frequency of 3 megacycles per second. The units are designed to work from 107 to 127 or 214 to 254 volts, 50 to 60 cycle power sources.

DISCUSSION

During this period, the mechanical design for the chassis and supporting structures was completed and the parts were fabricated.

The transmitter components were mounted and wired. The complete transmitter was then tested and adjusted for maximum output.

A detailed description of the transmitter construction, operation and maintenance are included in an "Operation and Maintenance Manual" which is furnished for the equipment.

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CONCLUSIONS

The design and construction of the two microphone jamming transmitters was concluded. A complete description of the units will be found in the "Operation and Maintenance Manual".

This successfully concludes the project. The finished transmitter, with a power output of approximately 150 watts, exceeds the specifications in the proposal.

Page 2

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Next 32 Page(s) In Document Denied